TABLE DES MATIERES · CONTENTS

Vol. 15 Mars · March 1985 *No. 1*

DUCOM, P. Pratique française de la fumigation aux frontières: situation, évolution 1

MORDKOVICH, YA.B., MENSHIKOV, N.S. & LUZAN, N.K. Modern means and methods of plant product fumigation in the USSR 5

BELL, C.H., HOLE, B.D. & WILSON, S.M. Fumigant doses for the control of *Trogoderma granarium* 9

CARMI, Y. Fumigation of gypsophila flowers against *Liriomyza trifolii* 15

CAUBEL, G., DUCOM, P. & MARRE, R. La fumigation au bromure de méthyle dirigée contre le nématode des tiges, *Ditylenchus dipsaci*, contenu dans des lots de semences et de bulbes 17

MORTIMER, E.A. & POWELL, D.F. In-transit control of *Liriomyza trifolii* in chrysanthemum cuttings 23

HAMILTON, G.A. Fumigation of potatoes with 2-aminobutane for control of gangrene and skin spot 25

LIESE, W. & RUETZE, M. Development of a fumigation treatment of oak logs against *Ceratocytis fagacearum* 29

SULLIVAN, J.B. New techniques in fumigation under development by DEGESCH 37

LEVINSON, H.Z. & LEVINSON, A.R. Use of pheromone traps for the proper timing of fumigation in the storage environment 43

DYTE, C.E. & HALLIDAY, D. Problems of development of resistance to phosphine by insect pests of stored grains 51

WOHLGEMUTH, R. Phosphine permeability of various plastic sheets and films 59

POWELL, D.F. A simple multiport valve and sampling technique for use in determining fumigant gas concentrations inside small enclosures 65

JOBSEN, J.A. & UILENREEF, H.E. The control of mole, water vole and muskrat with phosphine 71

CUANY, A., ARVIEU, J.C., BERGE, J.B. & BONNET, P. Activité comparée du bromure de méthyle vis-à-vis de divers microorganismes du sol et mode d'action 77

ARVIEU, J.C. & CUANY, A. Effets de la matière organique sur la bioactivité et la dégradation du bromure de méthyle dans le sol 87

LUNG ESCARMANT, B., TARIS, B., DUCOM, P., LANUSSE, M., TARLET, G.P. & MALATO, G. Action et comportement *in situ* du bromure de méthyle sur le développement d'*Armillaria obscura*, parasite du pin maritime dans le Sud-Ouest de la France 97

JORDY, A. A critical review of so-called cold sterilization in the field of foods 105

FLEURAT LESSARD, F. Les traitements thermiques de désinfestation des céréales et des produits céréaliers: possibilité d'utilisation pratique et domaine d'application 109
Conclusions de la Conférence OEPP sur la fumigation, Paris, 18–19 octobre 1983/Conclusions of the EPPO Conference on Fumigation, Paris, 18–19 October, 1983 119

Vol. 15 Juin · June 1985 *No. 2*

Conclusions du Colloque OEPP sur les nématodes à kystes, Münster (RFA), 26–28 Juin 1984/Conclusions of the EPPO Workshop on Cyst Nematodes, Münster (FRG), 26–28 June 1984 121
FERRIS, V.R. Evolution and biogeography of cyst-forming nematodes 123
STONE, A.R. Co-evolution of potato cyst nematodes and their hosts: implications for pathotypes and resistance 131
STURHAN, D. Species, subspecies, race and pathotype problems in nematodes 139
PARLEVLIET, J.E. Race and pathotype concepts in parasitic fungi 145
BERGÉ, J.B. & DALMASSO, A. Possibilités et limites de l'utilisation de la variabilité protéique dans la détermination des espèces et races de nématodes à kystes 151
JONES, F.G.W. Modelling multigenic resistance to potato cyst nematodes 155
DE SCURRAH, M. & FRANCO, J. Breeding for resistance to *Globodera pallida* at CIP 167
DALE, M.F.B. Field performance of potato cultivars resistant and partially resistant to *Globodera pallida* 175
PHILLIPS, M.S. Environmental differences and their effect on the assessment of quantitative resistance to potato cyst nematodes 179
UHRIG, H. Breeding potatoes with dihaploids 185
HANSEN, L.M. Testing potato clones for resistance to *Globodera rostochiensis* (Ro1) and *Globodera pallida* (Pa2 and Pa3) by root-ball screening 193
MUGNIÉRY, D. Résistance des solanacées à *Globodera* et influence de certains facteurs sur les résultats des tests de résistance 199
LIPA, J.J. Progress in biological control of the Colorado beetle (*Leptinotarsa decemlineata*) in Eastern Europe 207
HASSAN, S.A. Standard methods to test the side-effects of pesticides on natural enemies of insects and mites developed by the IOBC/WPRS Working Group 'Pesticides and Beneficial Organisms' 213
OOMEN, P.A. Guideline for the evaluation of side-effects of pesticides *Encarsia formosa* 255
Recommendations sur les stratégies d'utilisation des gènes de résistance/Recommendations on strategies for the deployment of resistance genes 265

Vol. 15 Septembre · September 1985 *No. 3*

TRUDGILL, D.L. Potato cyst nematodes: a critical review of the current pathotyping scheme 273

OLSSON, E. Morphological-taxonomical studies and pathotype classification in potato cyst nematodes 281
CLAYDEN, I.J. & TURNER, S.J. Comparison of the Fenwick can and Schuiling centrifuge methods for the extraction of potato cyst nematodes from soil 285
MARKS, R.J. & FLEMING, C.C. The use of isoelectric focusing as a tool in the identification and management of potato cyst nematode populations 289
SPAAR, D. & EBERT, W. Monitoring and forecasting in plant protection in the German Democratic Republic 299
PIEKARCZYK, K. & LIPA, J.J. Recent situation of the Colorado beetle (*Leptinotarsa decemlineata*) in Poland 311
BAKER, C.R.B. & COHEN, L.I. Further development of a computer model for simulating pest life cycles 317
LLÁCER, G., CAMBRA, M. & LAVIÑA, A. Detection of plum pox virus in Spain 325
Conclusions du Symposium OEPP sur la résistance aux fongicides, Bruxelles, 8–9 novembre 1984/Conclusions of the EPPO Symposium on Fungicide Resistance, Brussels, 8–9 November 1984 331
DELP, C.J. & DEKKER, J. Fungicide resistance: definitions and use of terms 333
DEKKER, J. The fungicide resistance problem: will it grow worse? 337
LEROUX, P. & BESSELAT, B. Résistance de *Botrytis cinerea* aux benzimidazoles et aux dicarboximides dans le vignoble français: conséquences pratiques 345
LORENZ, G. & POMMER, E.-H. Morphological and physiological characteristics of dicarboximide-sensitive and resistant isolates of *Botrytis cinerea* 353
GULLINO, M.L. & GARIBALDI, A. Resistance of *Botrytis cinerea* to benzimidazoles and dicarboximides: present situation on grapevine in Italy 361
KATAN, T. & OVADIA, S. Effect of chlorothalonil on resistance of *Botrytis cinerea* to dicarboximides in cucumber glasshouses 365
KATAN, T. Failure to detect highly resistant strains in dicarboximide resistant field populations of *Botrytis cinerea* 371
BESRI, M. & DIATTA, F. Résistance de *Botrytis cinerea*, agent de la pourriture grise de la tomate, aux benzimidazoles, dicarboximides et sulfamides 379
MARAITE, H., MEUNIER, S., GILLES, G. & BAL, E. Evolution de la résistance aux imides cycliques chez *Botrytis cinerea* sur fraisiers en Belgique 387
MEUNIER, S., MARAITE, H. & MEYER, J.A. Caractéristiques culturales et pathogéniques de souches de *Botrytis cinerea* résistantes aux imides cycliques isolées de fraisiers en Belgique 395

Vol. 15 Décembre · December 1985 *No. 4*

DAVIDSE, L.C. Resistance to acylalanines in *Phytophthora infestans* in The Netherlands 403
PAPPAS, A.C. Resistance to acylalanines in *Pseudoperonospora cubensis* 411
SAMOUCHA, Y. & COHEN, Y. Occurrence of metalaxyl-resistant isolates of *Pseudoperonospora cubensis* in Israel: a 5-year survey 419
CLERJEAU, M., MOREAU, C. & PIGANEAU, B. Méthode d'évaluation du taux de

souches résistantes aux anilides dans une population de *Plasmopara viticola*: application à la surveillance du vignoble en France 423
HERZOG, J. & SCHÜEPP, H. Haustorial development test to characterize metalaxyl resistance and genetic variability in *Plasmopara viticola* 431
GAULLIARD, J.M. Efficacité du phoséthyl-Al contre les souches de *Plasmopara viticola* résistantes aux anilides (acylalanines) 437
SERRHINI, N., MARAITE, H. & MEYER, J.A. Sélection *in vitro* de souches de *Phytophthora citrophthora* résistantes au métalaxyl 443
WOLFE, M.S. Dynamics of the response of barley mildew to the use of sterol synthesis inhibitors 451
BUCHENAUER, H. & HELLWALD, K.-H. Resistance of *Erysiphe graminis* on barley and wheat to sterol C-14-demethylation inhibitors 459
HOLLOMON, D.W., LOCKE, T. & PROVEN, M. Sensitivity of *Erysiphe graminis* f. sp. *hordei* to ethirimol in relation to field performance in UK 471
CESARI, A., FIACCADORI, R. & BRANDOLINI, V. Résistance à la dodine chez *Venturia inaequalis* dans les vergers de pommiers de l'Italie septentrionale 473
FEHRMANN, H. Resistance to benzimidazoles in *Pseudocercosporella herpotrichoides* 477
GRIFFIN, M.J. & KING, J.E. Benzimidazole resistance in *Pseudocercosporella herpotrichoides*: results of ADAS random surveys and fungicide trials in England and Wales, 1982–1984 485
CAVELIER, N., LEROUX, P., HANRION, M. & CURE, B. Résistance de *Pseudocercosporella herpotrichoides* aux benzimidazoles et thiophanates chez le blé d'hiver en France 495
NIELSEN, B.J. & SCHULZ, H. Benzimidazole resistance in *Pseudocercosporella herpotrichoides*—monitoring programme in Denmark 503
GRIFFIN, M.J. & FISHER, N. Laboratory studies on benzimidazole resistance in *Septoria tritici* 505
GEORGOPOULOS, S.G. The genetic basis of classification of fungicides according to resistance risk 513
SKYLAKAKIS, G. Two different processes for the selection of fungicide-resistant sub-populations 519
LEVY, Y. & STRIZYK, S. Modélisation du développement de souches résistantes aux fongicides systémiques, compte tenu du mode d'application, de l'adaptabilité génétique du champignon et de la synergie entre fongicides 527
URECH, P.A. & STAUB, T. The resistance strategy for acylalanine fungicides 539
GARIBALDI, A., ROMANO, M.L. & GULLINO, M.L. Synergism between fungicides with different mechanisms of action against acylalanine-resistant strains of *Phytophthora* spp. 545
GINDRAT, D. & FORRER, H.R. Strategies to prevent build-up of resistance to fungicides in cereal crops in Switzerland 553
WOLFE, M.S. Integration of host resistance and fungicide use 563
URECH, P.A. Management of fungicide resistance in practice 571
WADE, M. & DELP, C.J. Aims and activities of industry's fungicide resistance action committee (FRAC) 577
Rapport du Directeur général pour la periode juillet 1984–juin 1985/Report of the Director-General for the period July 1984–June 1985 585